

American Gas Furnace Co.

Elizabeth, New Jersey

Manufacturers of

Industrial Heating Appliances

Over 50 years of practical experience is back of American Gas Furnace equipment. In using American furnaces, the student will become acquainted with the same type of equipment used in so many industrial plants.

American furnaces and equipment are modern in design and construction. Write for further details.



Our products include:

Automatic Heat Controllers; Automatic Quenching Tanks; Blowers; Blowpipes or Blowtorches, Hand and Stand; Brass Melters; Burners; Burners for Electric Lamp Bulb Manufacture; Carburizing Machines; Cyanide Furnaces; Cylindrical Furnaces; Forges; Heating Machines; Melting Furnaces; Muffle Furnaces; Oil-Tempering Furnaces; Oven Furnaces; Rivet Heaters; Soft Metal and Lead Hardening Furnaces; Tube-Heating Furnaces.



Oven Furnaces

The No. 16 Oven Furnace is especially adapted for schoolroom work for hardening, annealing, normalizing, etc., where temperatures not in excess of 1800° to 2000° F. are required.

For hardening high speed steel, the No. 96 Oven Furnace is recommended. Furnace can be quickly and easily controlled as to furnace temperature and atmosphere.

Size No.	Ht. Inches	Width Inches	Available Heating Space Inches
16	3 3/4	8	12
96	5	5	9
1	6	12	14

*High speed oven furnace with sliding fire brick door.

**Supplied either with hinged type cast iron door or sliding fire brick door.

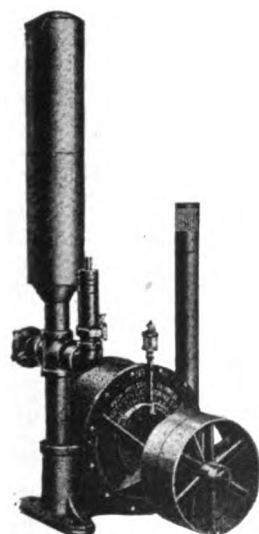
Soft Metal and Lead Hardening Furnaces

Soft Metal Furnaces are designed for melting lead, babbitt, etc., and, in fact, any substance which melts under 1000° F. Lead Hardening Furnaces are equipped with stronger burners for maintaining temperatures as employed in the hardening of carbon steel, etc., and are especially adapted for the local hardening of parts.

No.	Diam. Inches	Depth Inches
*1	6	5
*3	11 1/2	10 1/2
*5	5	11 1/2
*43	8	6 1/2

*For soft metal.

**For lead hardening.



Blowers

For most efficient operation, industrial furnace equipment is generally supplied to use air at a pressure of one pound per square inch. Blowers as illustrated to furnish this air can be supplied either with tight and loose pulley or motor and silent chain drive on base.

Blower No.	Cu. ft. per min. at 1 lb. per sq. in.
1	76
2	114
3	190
4	285
5	464
6	697

Bench Forges

This forge may be conveniently placed upon a bench and is ideal for quickly heating small pieces for forging, bending, tool-dressing, hardening, etc. A forging heat can be obtained in two minutes from cold. The heating space or chamber has removable plugs in both ends and a removable top brick. This permits drawing a rod or wire through the heating chamber as for annealing a long length or heating a straight rod locally at any point. With the bricks differently arranged, work may be placed so as to heat the ends of a number of pieces at a time, in fact the variety of heating operations is almost limitless.

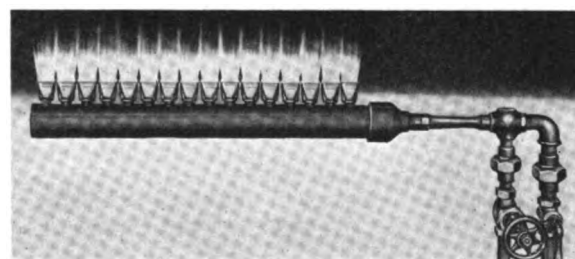
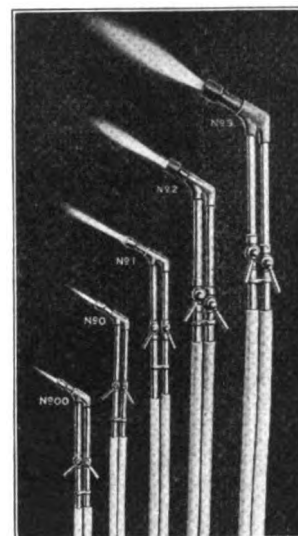
Size No.	00	0
Available Heating space, Depth.....in.	4	2
Width of Entrance.....in.	3	1 1/4
Height of Entrance.....in.	2	1 1/4



Blow Pipes

Used for soldering, brazing, welding, annealing and hardening certain small work, sterilizing, melting, etc. These blowpipes are made in six sizes, in both the hand and stand types, the flames ranging from a needle point up to 2-inch diameter by 9 1/2 inches long. The mixture of gas and air is perfect before it reaches the point of combustion. These blowpipes are so constructed that the maximum heat possible from the gas being used is obtained, and they burn well with producer gas, natural gas, artificial (city) gas, gasoline gas, etc. Air at one pound per square inch is required for their operation. These blowpipes can be regulated to produce instantly, or gradually, from a soft mild flame to the strongest flame procurable.

Blowpipe No.	Diam. Inches	Lgth. Inches
000	1/4	3
00	1/2	3 1/2
0	3/4	4 1/2
1	1	5 1/2
2	1 1/4	6 1/2
3	2	9 1/2



Burners

A wide variety of burners can be supplied according to the nature of the requirement to give a soft, focusless fire or a sharp, intense local fire. Ribbon Burners and equipment for manufacturing neon light signs is also supplied.

American Gas Furnace Co., Elizabeth, N. J.